

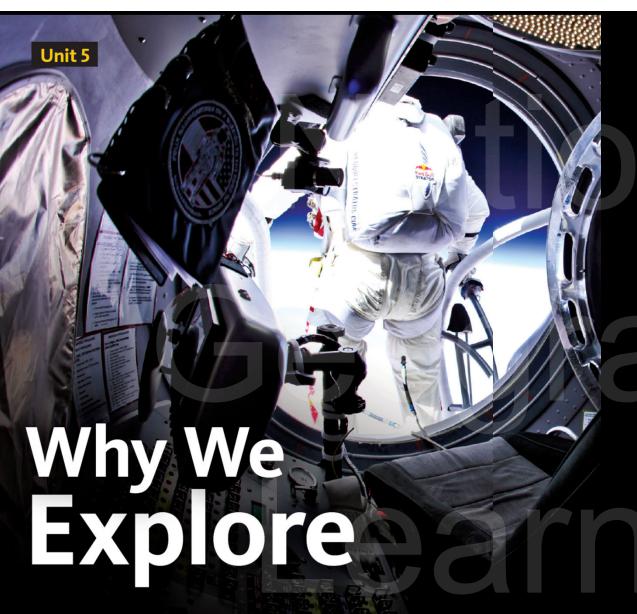


# Agenda

What are thinking routines?

Why should we use them in the language classroom?

How can I utilise them?



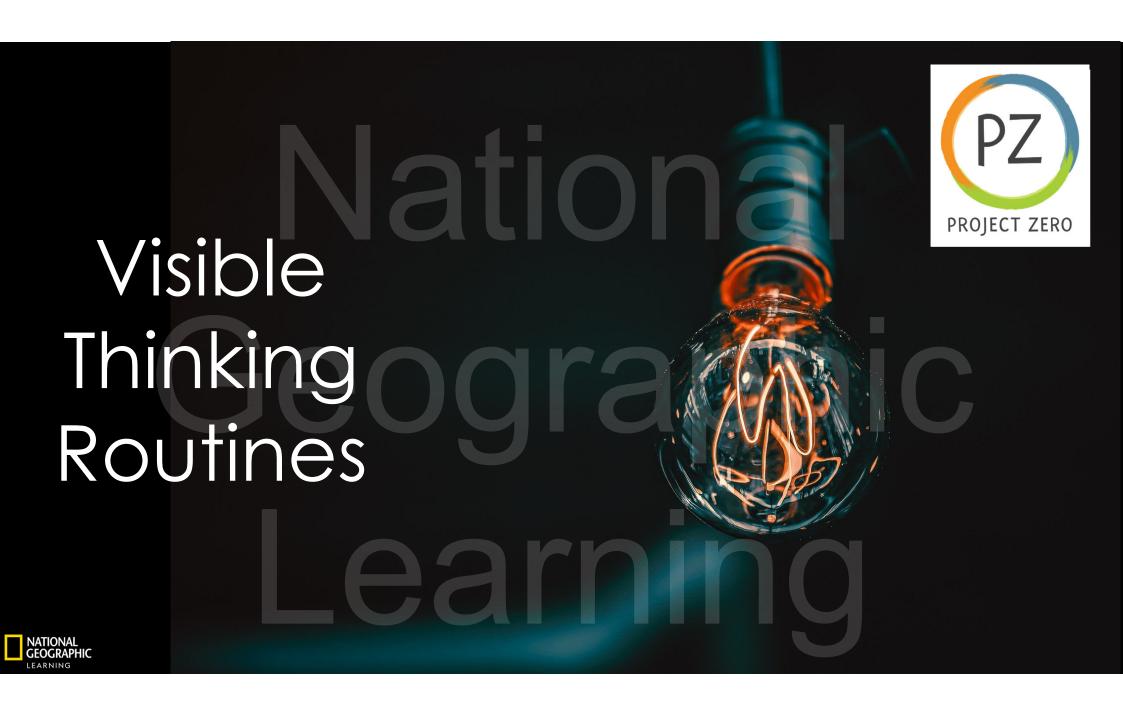
"21st century education is about giving students a set of skills, abilities and knowledge they need to develop in order to succeed in learning, work and life in the information age."

http://21stcenturyskillsbook.com/blog/q-a/

# Ationa Are visible thinking routines?

Learning





"They are short, easy-to-learn ministrategies that extend and deepen students' thinking and become part of the structure of everyday classroom life.''



Project Zero

https://pz.harvard.edu/projects/visible-thinking



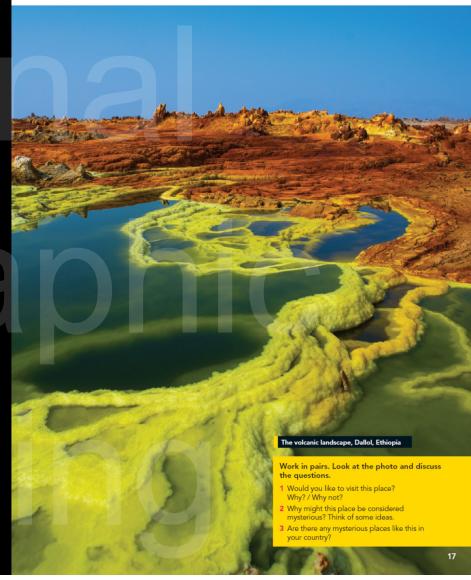
## Thinking Dispositions

- 1. Observing closely and describing
- 2. Building explanations and interpretations
- 3. Reasoning with evidence
- 4. Making connections
- 5. Considering different viewpoints and perspectives
- 6. Capturing the heart and forming conclusions
- 7. Wondering and asking questions
- 8. Uncovering complexity and going below the surface of things



Ritchart et al, 2011





# Visible Thinking Routines

CORE THINKING ROUTINES

**POSSIBILITIES & ANALOGIES** 

PERSPECTIVES, CONTROVERSIES & DILEMMAS

**OBJECTS & SYSTEMS** 

PERSPECTIVE TAKING

WITH ART OR OBJECTS

DIGGING DEEPER INTO IDEAS

SYNTHESIZING & EXPLORING IDEAS

INTRODUCING & EXPLORING IDEAS

https://pz.harvard.edu/thinking-routines



# should we incorporate thinking routines into our lessons?



### Mysterious world 2

"Learning is the outcome of thinking, and as such gaining insights into the ways students think is crucial for teachers, allowing them to alter students' thinking dispositions."

Caroti, Howell, Kester, Dodgson, 2017





- Development of learner's thinking and learning abilities
- Deeper understanding of content
- Greater motivation for learning
- Development of learner's attitudes to learning
- A shift in classroom culture towards a community of enthusiastically engaged thinkers and learners
- Facilitates a more inclusive and communicative classroom



"Learning is a consequence of thinking, not something extra we tack on for good measure but something in which we must actively engage to promote our own and others' learning."

Ron Ritchhart, Creating Cultures of Thinking, 2015



# National

can we use them in the English Language classroom?

Learning







# The 3 Whys

- 1. Why might this [topic, question] matter to me?
- 2. Why might it matter to people around me [family, friends, city, nation]?
- 3. Why might it matter to the world?



# Question Starts

Why...?
What are the reasons...?
What if...?
What if we knew...?
What would change if...?
Suppose that...?
How would X be different if...?
Suppose that...?
What is the purpose of...?

#### 

What did you eat for breakfast this morning? For dinner last night? You might have mealtime routines that are the same or almost the same - each day. But did you ever stop and think about the connection you have to food?

In the past, people often grew their own crops and raised their own animals. Once the food was harvested, they worked together to get the food to the table. This collaboration helped people to connect with one another, and with the food they prepared.



Harvesting food

Chef and conservationist Barton Seaver realised at a young age that food is part of the human experience. As a child, Barton lived in a diverse community. Immigrants who lived there brought foods from their cultures with them. Barton's parents cooked with these foods, and Barton was grateful to be able to explore the world right from his kitchen. He learnt that food is a reflection of culture it's part of who we are.

Today, this connection between food and people is breaking down. Globalisation allows food to be shipped anywhere in the world. Since you can buy

44 VOCABULA

according to your tastes, there's no need to wait until foods become available. And you don't have to spend hours preparing meals as a family. Foods have been prepared and packaged to be more convenient. Although they make life easier, these foods are not as wholesome as fresh, local foods. Packaging and transporting foods also impacts on the environment.

Barton studies the effects of our food choices on the environment, especially the oceans. He understands that we have preferences about seafood, and that fishermen try to get us what we want. But commercial fishing has upset the ocean' ecosystem, and Barton is working to help people change their attitudes about food so that they make better choices.

So, the next time you sit down to a nice main course of fish and vegetables, think about what you're eating. Are the vegetables from a nearby farm or from across the world'l is the fish on your plate an overfished species? Enjoy your dinner but don't ignore where it comes from. Remember, your choices count!

2 LEARN NEW WORDS Listen and repeat. 1031

Work in pairs. Describe what you ate and drank at your last meal. Was it wholesome? Where do you think this meal came from? What impact do you think it had on the environment?

VOCABULARY 45





# Think, Puzzle, Explore

- 1. What do you think you know about this topic?
- 2. What questions or puzzles do you have?
- 3. What does the topic make you want to explore?



# 3-2-1 Bridge

What are initial responses to the topic of Voluntourism?

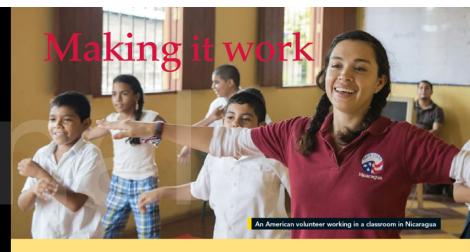
- 3 Thoughts/Ideas
- 2 Questions
- 1 Metaphor/Simile

Having read and discussed the article, what are your new responses to the topic?

- 3 Thoughts/Ideas
- 2 Questions
- 1 Metaphor/Simile

How do you new responses

NATIONAL connect to your initial response?



#### 9.1

Hannah Francis has spent a lot of time as a volunteer.
 Here, she addresses four criticisms of voluntourism.

#### A It's really the volunteers who benefit

One criticism of voluntourism is that it's all about the volunteer, who travels around the world cheaply while enjoying interesting experiences. Critics argue that the projects themselves are often meaningless, designed to keep volunteers busy rather than helping local communities. I admit that voluntourism isn't perfect. But it can still help people. I once worked on an environmental project in Ecuador. The scientists were able to do more research projects with help from volunteers like me. Without our help, the research programme would still have happened, of course, but on a smaller scale. However, the most powerful benefit of voluntourism is often missed: the friendships and

cross-cultural learning that it encourages. Locals and

volunteers can benefit hugely from learning that we're

#### all the same, despite our differences. B It's bad for local economies

Another criticism is that volunteers steal jobs from 20 locals. If you build a school for free, some people argue, it's great for the school, but not for local builders who need to make a living. In fact, skilled builders are often still employed, to train the volunteers and fix their mistakes. Of course, it would be quicker and cheaper for the professional builders to do the work themselves, but that's not the point. The project is about more than building a school. Volunteer programmes create new jobs too, by hiring local people to host and feed volunteers, or by encouraging those volunteers to buy from local shops. 30 Sometimes volunteers fill roles that wouldn't otherwise exist. In one place I worked at, I taught in a school which used volunteers because it didn't have the budget for a full-time English teacher. Without volunteers, those classes wouldn't have happened.

#### Volunteers are university students travelling to developing countries

Not everyone likes the idea of privileged people travelling to developing countries as part of their learning experience. But many volunteers actually stay in their own countries, giving their time for free on projects ranging from animal welfare to repairing walking trails.

40 As for the idea that voluntourism is only something that

40 As for the idea that voluntourism is only something that university students do, when I volunteered in the US, one volunteer I met was 80 years old. It's not difficult to find situations where teams of volunteers are made up of people in their 60s and 70s, with no young university students at all.

#### People become dependent on voluntourism

Some critics believe that voluntourism makes people dependent on others, so they can no longer cope by themselves. Critics also say it creates the idea that people from rich countries can 'help' just by being themselves, 50 without any responsibility to learn new skills. The majority of projects aren't like that at all. So where does this misunderstanding come from? The problem may be in the name. To some people, the word 'volunteer suggests helping people in need, while 'tourist' brings to mind herds of holiday-makers taking selfies. Eventually, I came to see myself more as a learner. I did the work that had to be done, from collecting rubbish to data entry. At the same time, I was learning about a place and the problems that people there faced. In the end, voluntourism isn't about making people dependent on our help, or going somewhere to have a holiday. It's about learning new things about the world, while doing



meaningless (adj): seeming unimportant privileged (adj): when you have a special advantage because you are rich or because of your social position herd (n): a large group of animals (e.g. cows) that stay together for safety



There are certain places around the world where people live well into their 90s and often past 100. Why do people living in these locations have a longer **life expectancy** than people elsewhere? And what lessons can we learn from the people living in three of these areas?

#### Okinawa, Japan

Okinawans are amongst the world's healthiest people. They eat food that is local and have a diet that is unique to the area. Unlike most Japanese, Okinawans eat very little rice. Most of their diet is plant based and they hardly ever eat meat. They also eat in moderation. They have a saying, 'eat 10 until your stomach is 80 per cent full'. In addition to a healthy diet and plenty of exercise, there are two other really important factors in Okinawan culture. These are moai and ikigai. When children are small, parents put them into groups of five. This group of friends becomes a moai. The five friends stay in contact and are always there for each other throughout their lives. Ikigai means 'that which makes one's life worth living'. For every Okinawan, this will be different. It could be 20 their grandchildren or their moai. Whatever it is, their ikigai gives them a purpose in life.

#### B Nicoya Peninsula, Costa Rica

On the other side of the world in Costa Rica, the people of the Nicoya Peninsula have their own type of ikigai. Nicoyans call it plan de vida or 'reason to live' and it plays a really important role in Costa Rican culture. These 'reasons' give Nicoyans a real sense of purpose. Different generations within the family often live together and centenarians still provide support and look after children, grandchildren and often greatgrandchildren. This makes them feel needed and part of a community. Nicoyans also eat a very healthy diet and often spend their days doing hard, physical work outdoors. They celebrate the 'three sisters' of agriculture which are beans,

squash and corn. Nicoyans grow and eat these crops together and they make up the majority of the well-balanced Nicoyan diet. Interestingly too, there is more calcium in the water in Nicoya than anywhere else in the country. Calcium is known to strengthen bones and it might also contribute to fewer cases of heart disease.

#### G Ikaria, Greece

Eleven thousand miles away from the Nicoyan Peninsula lies Ikaria, a small Greek island in the Aegean Sea. The landscape of Ikaria is similar to many of the other Greek islands, but one difference is that Ikarians often live a lot longer. Again, diet seems to play an important role in the health of the Ikarians. Homegrown vegetables 50 and fresh fruit make up the majority of the Ikarian diet and Ikarians eat a type of leafy spring green called horta. In addition, they make a daily tea with herbs that grow on the island and which are known to prevent disease. It's not only eating good food that makes the Ikarians so healthy and free of disease, but also the hard work and physical activity that goes into growing these staples that goes a long way to keeping the inhabitants fit, both mentally and physically.



# Think, Pair, Share

- 1. What do you think are the secrets of a long life?
- 2. Do you think these things help you to lead or prevent you from leading a long and healthy life? Give reasons for your answers.

eating habits exercise friends setting goals sleep social networking

3. What kind of things do you think people who live to 100 years old do every day?



There are certain places around the world where people live well into their 90s and often past 100. Why do people living in these locations have a longer life expectancy than people elsewhere? And what lessons can we learn from the people living in three of these areas

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life expectancy (n): the length of time that some

in moderation not having too much of something calcium (n): a chemical element which is good for

staples (n): the main products grown and eaten in a

# Words I know, think I know, don't know

calcium staples life expectancy in moderation generations homegrown inhabitants local agriculture centenarians landscape prevent

**I** know

I think I know

I don't know

Close-up  $\Box$ 



## The 4Cs

#### Connections

What connections do you draw between the text and your own life or your other learning?

#### Challenge

What ideas, positions, or assumptions do you want to challenge or argue with in the text?

#### Concepts

What key concepts or ideas do you think are important and worth holding on to from the text?

#### Changes

What changes in attitudes, thinking, or action are suggested by the text, either for you or others?



# **Humans in Groups**

You and all humans belong to many kinds of groups. In some, membership is involuntary - that is, you were not part of the decision to belong. For example, if you were born in Peru, you are a member of the group Peruvians. Other examples of involuntary group membership include left-handed people or brown-eyed people.

Most of the time, though, you and the rest of us want to join, or become members of, certain groups. Why? Joining the technology club, the school choir, or a volunteer group that visits people in hospital reflects your interests and becomes part of your social identity. You become an accepted member of the chosen in-group. At the same time, you remain different from the out-group, those people who are not in the group. This reflects the human desire to belong, but also the desire to stand out, or be seen as different.

Most groups we join have the intention of lasting over time. They work to influence others in some way. But sometimes emergent groups form without goals or structure. The members of emergent groups don't know each other, but come together suddenly to respond to an event. For instance, a group of people might see a car accident and immediately come together to help the victims.

Not all short-lived groups deal with accidents or disasters. A flash mob, which is a group of people who suddenly assemble to perform in public, only comes together for a short time and then disappears. The goal of a flash mob is to do something surprising and entertaining in public, such as having a pillow fight or dancing in the street.

Whether we're fighting with pillows or helping people, humans are social beings who come together in groups.



#### Discuss in groups.

- 1. Go back to your own list of the groups you named in Activity 1. What kinds of groups were named? Compare and contrast the groups.
- 2. In Unit 1, you learnt about your personal identity. In this unit, you learnt about your social identity as a member of groups. How do these two identities influence one another? Give an example.
- 3. Would you like to be in a flash mob? What would you want the flash mob to do?



# Building the cities of the future

4.1

1 Silicon Valley in California used to have a small rapid growth. It is now home to some of the world's most famous technology companies. It is also home to four million people (mostly aged 20-39). But Silicon Valley has a shortage of housing. In Mountain View, home of Google, more than 1,500 people live in parked cars because the cost of a home is so high. If you drive down El Camino Real, a major road through Silicon Valley, you'll mostly see offices and other commercial buildings, and hardly any residential buildings. But if its buildings contained apartments, with shops and offices on the ground floor, they could provide 250,000 new homes while also reducing the need to commute by car. According to Peter Calthorpe, an urban designer, people won't stop using cars if that's the only way to get around. Calthorpe believes that cities should stop expanding into the countryside. They should 20 grow in small, walkable blocks, and stop separating

Paris is a beautiful city, attracting 30 million tourists every year. However, a century ago, there was a plan to destroy its historical buildings in the name of progress. In 1925, Le Corbusier, the father of modernist architecture, proposed building identical office towers in central Paris, with areas of grass between them. There were plans for cars to race along on raised motorways. Le Corbusier's plans for Paris were never realised, but his influence spread widely. It's seen in the housing projects of American city centres and in new cities being planned all over the world. Many of these claim to encourage walking and public transport, but problems still remain. Putrajaya, the new home of Malaysia's government buildings, is a good example. Half of it is devoted to green space. This might sound great, but it takes a long time to walk between buildings, which means that people end up getting in their cars.

C

When the urban designer Jan Gehl began his career
in 1960, his home city of Copenhagen had a big
traffic jam problem. Gehl's focus at that time was
on architecture that looked impressive, rather than
on designing humanistic buildings. But he changed
course, and so did Copenhagen. Since the 1960s, it's
become a model city for cyclists: two-fifths of all
commuter journeys are now on two wheels. Gehl
believes that we need to think about how we can
continually improve our cities for the benefit of the
people living in them. He likes knowing that the
city is gradually improving every day. He believes
young people should grow up in a place that's better
than where their parents did.

Bicycles on the Cirkelbroen (Circle Bridge) in

Copenhagen, Denmark

D

Since the 1970s, millions of Chinese families have started moving to cities for work. Huge numbers of identical tower buildings known as 'superblocks' were built quickly. This was good, in that more to good living conditions. However, less thought was given to the spaces between these superblocks. 60 Because the spaces were sometimes uninviting, blocks in order to feel safer, so many blocks almost became like gated communities. Over time, as with many other urban areas all over the world, cities became less walkable and more suitable for cars. But all of that is now changing. In 2016, the Chinese government decided that new cities needed to preserve their history, with smaller, unfenced blocks <sup>70</sup> and pedestrian-friendly streets, and to grow around public transport. For example, Xiong'an New Area is designed to be a pleasant, low-rise urban home to millions of people. According to one architect, Xiong'an New Area is an experiment and if it's successful, it can be copied in many other cities.

humanistic (adj): thinking about the safety, health and happiness of people commuter (n): a person who travels to work every day gated community (n): a group of flats or houses that is surrounded by forces or suits.

unfenced (adj): not having a wall or barrier around it

# tional 3-2-1

3 things I found interesting2 things I'd like to know more about1 thing I'd like to fact check

Close-up B2



Α

Silicon Valley in California used to have a small population, but since the 1970s, it has experienced rapid growth. It is now home to some of the world's most famous technology companies. It is also home to four million people (mostly aged 20-39). But Silicon Valley has a shortage of housing. In Mountain View, home of Google, more than 1,500 people live in parked cars because the cost of a home is so high. If you drive down El Camino Real, a major road through Silicon Valley, you'll mostly see offices and other commercial buildings, and hardly any residential buildings. But if its buildings contained apartments, with shops and offices on the ground floor, they could provide 250,000 new homes while also reducing the need to commute by car. According to Peter Calthorpe, an urban designer, people won't stop using cars if that's the only way to get around. Calthorpe believes that cities should stop expanding into the countryside. They should grow in small, walkable blocks, and stop separating

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# Stop, Think, Discuss

What did I find most interesting? Why?

Did anything surprise/shock me? Why?

Did? anything worry/concern me? Why

Did anything make me stop and think? Why?

Was there anything I strongly agreed /disagreed with? Why?

Has my view/opinion changed from reading this? Why?

# Compass Points

#### E = Excited

What excites you about this idea or propositions? What's the upside?

#### W = Worrisome

What do you find worrisome about this idea or proposition? What's the downside?

#### N = Need to Know

What else do you need to know or find out about this idea or proposition? What additional information would help you to evaluate things?

#### S = Stance or Suggestion for Moving Forward

What is your current stance or opinion on the idea or proposition? How might you move forward in your evaluation of this idea or proposition?





 Many of us feel frustrated and overwhelmed by the environmental problems that we're facing – from climate change to the loss of natural habitats and plastic pollution. (1) \_\_\_ We must find solutions – and many of us are convinced we will. But why?
 (2) \_\_\_ The technology for dealing with these problems already exists.

Climate change is not an easy problem to solve. Even if we're already doing our best (for example by

of avoiding travelling by plane or car, by only buying the things we need, or by going vegan), we're all still part of the problem. It's impossible not to be. We all need to eat and stay warm. We consume electricity. Many of us have to travel to get to school or work.

(3) \_\_\_ But soon, living a green lifestyle will become a lot easier. For example, we now have the technology to use renewable energy like wind or solar power on a massive scale and it's getting cheaper all the time. That means we can dramatically reduce the share of carbon emissions that come from burning fossil fuels

20 carbon emissions that come from burning fossil fuels to create electricity and heat. This currently represents around 25% of all emissions, but we can easily cut this in half within the next 10 years.

30 finding new ways to create authentic-tasting mea alternatives – perfect for burgers! Of course, it's unlikely that everyone will go vegan in the futur However, a lot of people will be eating much less meat than we do now and might find it difficult to understand why people in our time ate so much of it.

As for the rest of our carbon emissions, most of it comes from industry and transport. Again, the technology exists to reduce these emissions, but sometimes, businesses need extra encouragement

40 to invest in it. (5) \_\_\_ For example, in Norway, more people are buying electric cars, mainly because there's no sales tax on them, making them as cheap as cars powered by fossil fuels (which will soon be banned in Norway).

Finally, there is the danger that some animal and plant species – if we're not careful – may disappear forever.

(6) — For example, by creating a larger number of protected areas, many species can be saved. Also, by reducing the amount of mean we get the land we were

reducing the amount of meat we eat, the land we use
for animals such as cows and sheep can be given back
to nature.

In other words, the future is in our hands. The worst thing we could do at this stage is to feel pessimistic. If we start believing it's too late to solve the world's problems, we might think that we ought to give up. If we stay optimistic and work together, it's certainly possible for us to make changes for the better.



overwhelmed (adj): feeling that something is too big or too difficult to cope with

consume (e): use or eat something (in large amounts)
renewable energy (n): energy that can be replaced easily o
produced as quiddy as it can be used
massive (adj): very large
sortical true, (n): 6 proving



- BEFORE YOU WATCH Discuss in groups. Describe the size and the atmosphere of a concert or big sporting event that you've attended.
- 2 Discuss in groups. You're going to watch a video called The Footprint of Fans. Based on what you have learnt so far in this unit, predict three ways fans leave an ecological footprint when they attend an event.
- 3 WHILE YOU WATCH Fill in a T-chart, List two problems and two solutions mentioned in the
- 4 AFTER YOU WATCH Complete the sentences
- 1. Fans are responsible for up to
- of a concert's carbon footprint.
- 2. Some concert venues reward fans who carpool by giving them \_
- 3. Some sporting events can fill a stadium with up
- 4. Sports fans can leave behind
  - tonnes of waste.
- 5. Recycled plastic and other materials are now

68 VIDEO

- 5 Work in pairs. Tick the ways the video suggests that we can reduce our fan footprint.
  - only watch games on TV
  - arpool to concerts
  - buy recycled sporting equipment pay less money for tickets
  - recycle water bottles

  - go to fewer concerts and sporting events
- 6 Discuss in groups. Answer the questions you see at the end of the video: What else are you a fan of? How does it impact the environment? How can you take action to become an eco-friendly fan?
- YOU DECIDE Choose an activity.
- Work independently. Research a concert or sporting event. How could the organisers have made the event greener? Write a letter to the organisers presenting at least three ideas.
- 2. Work in pairs. Survey your classmates to find out how many attend big events such as concerts or sporting events. Create five questions about transport, rubbish, energy use and recycling at these events. Summarise and report
- 3. Work in groups. Make a short presentation to your local politicians suggesting how to reduce the carbon footprint of big events in your city.

VIDEO 69

# I Used to Think... Now





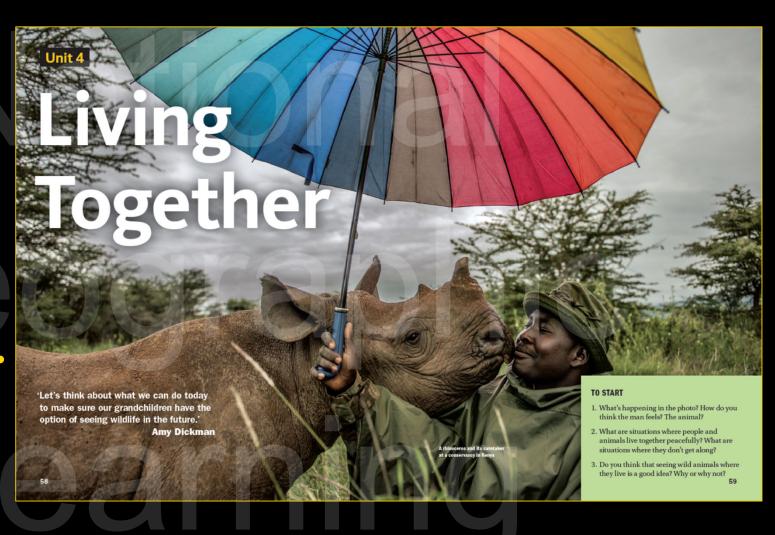


I see... I think...





I see...
I think...
I wonder...





What makes you say that?

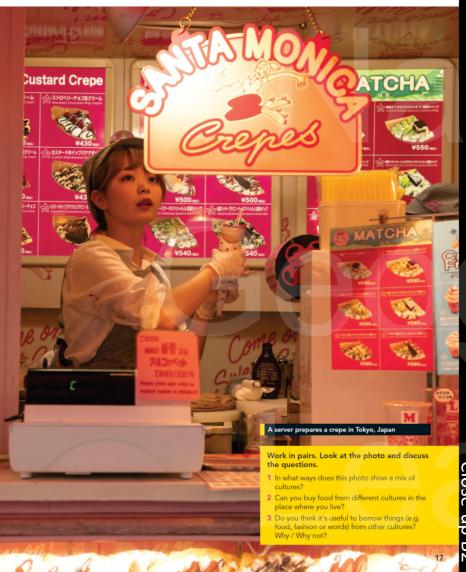




"Without image, thinking is impossible" Aristotle



### Global culture? 2



# See, Think, Me, We

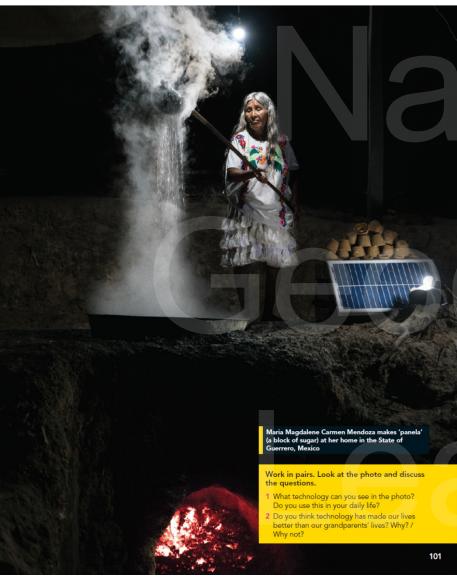
**SEE:** Look closely at the photo. What do you notice?

THINK: What thoughts do you have about the photo?

ME: What connections can you make between you and the photo?

WE: How might the photo be connected to bigger stories – about the world and our place in it?

### Digital world 9



# 3 Dimensions of Viewing

#### Personal Viewing

How does this photo make you feel? Why? Does it remind you of anything?

#### Structural Viewing

What is happening in the image? What might lie outside the image? What's it focussing on? Why?

#### Critical Viewing

What message is the image trying to convey? Can it be interpreted in more than one way?

# Beginning, Middle, End

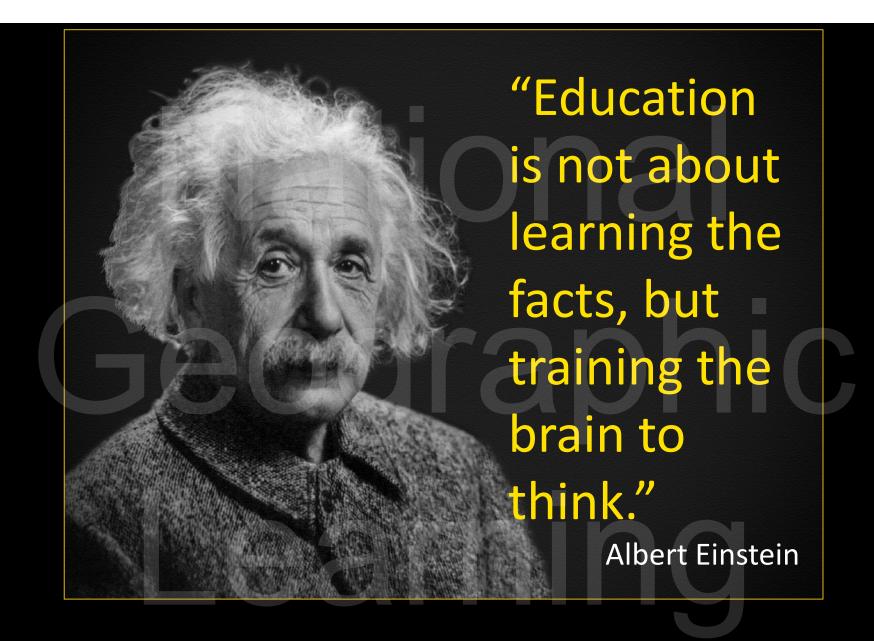
Choose one of these questions:

- If this image is the beginning of a story, what might happen next?
- 2. If this artwork is the middle of a story, what might happen before? What might be about to happen?
- 3. If this artwork is the end of a story, what might the story be?











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